

FIG. 7A

FIG. 7B

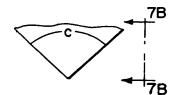




FIG. 9

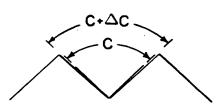


FIG. 8A

FIG. 8B
TOOL DIRECTION DURING

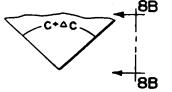
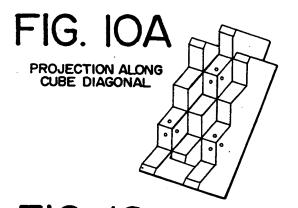
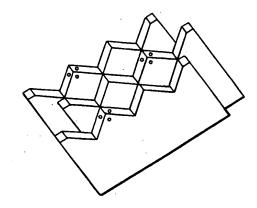


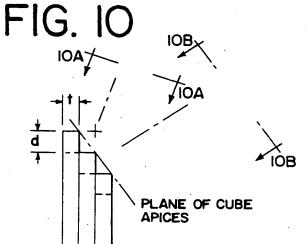


FIG. IOB

PROJECTION PERPENDICULAR TO THE PLANE OF THE CUBE APICES

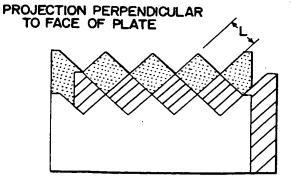


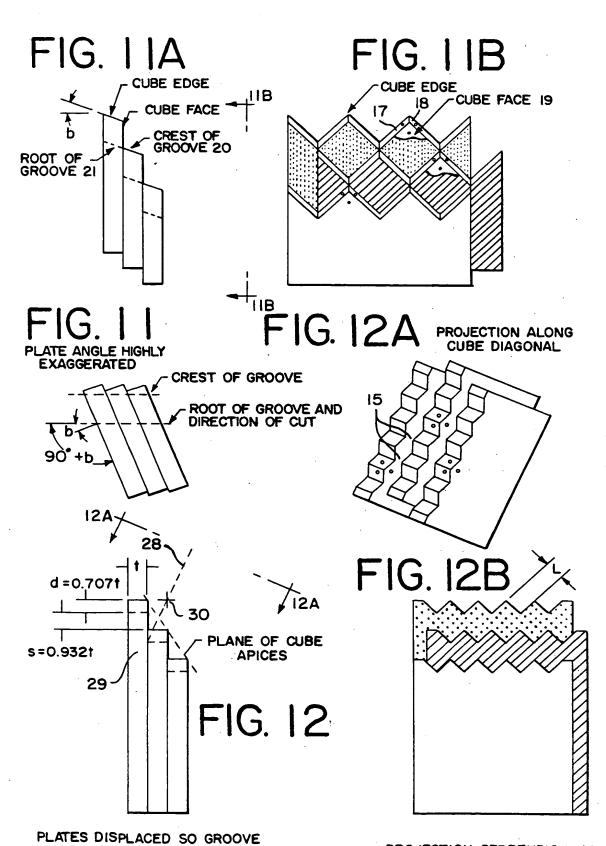




L>t

FIG. IOC





EDGE DOES NOT MEET GROOVE

ROOT OF ADJACENT PLATE L=1

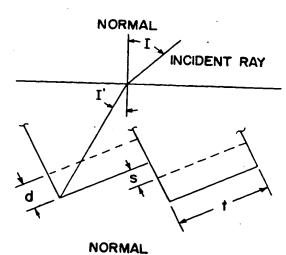
PROJECTION PERPENDICULAR TO FACE PLATE

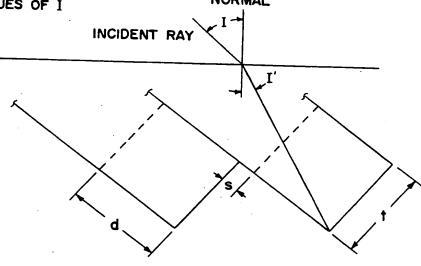
FIG. 12C

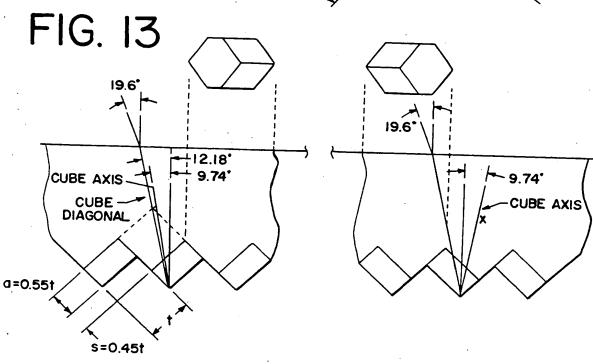
INTERRELATIONSHIP OF d, s, t, I AND I' FOR NEGATIVE VALUES OF I

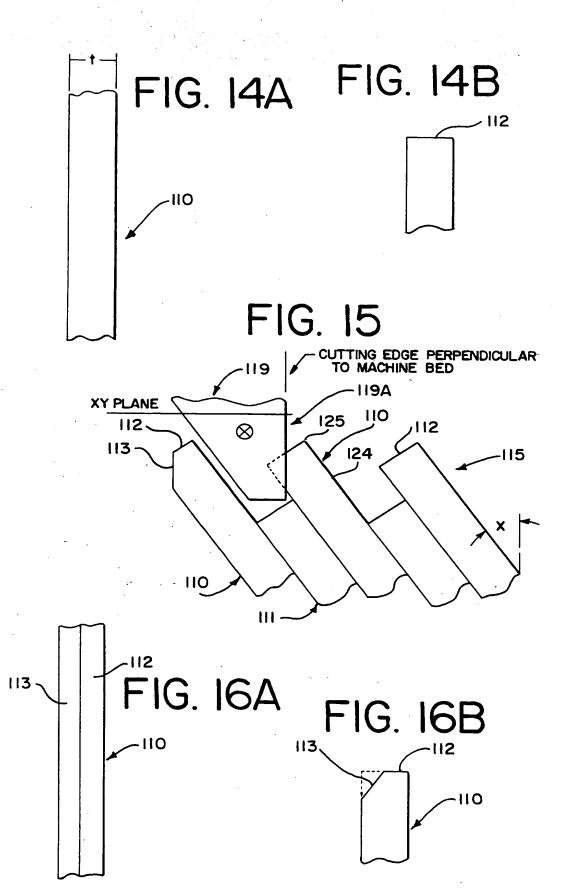
FIG. 12D

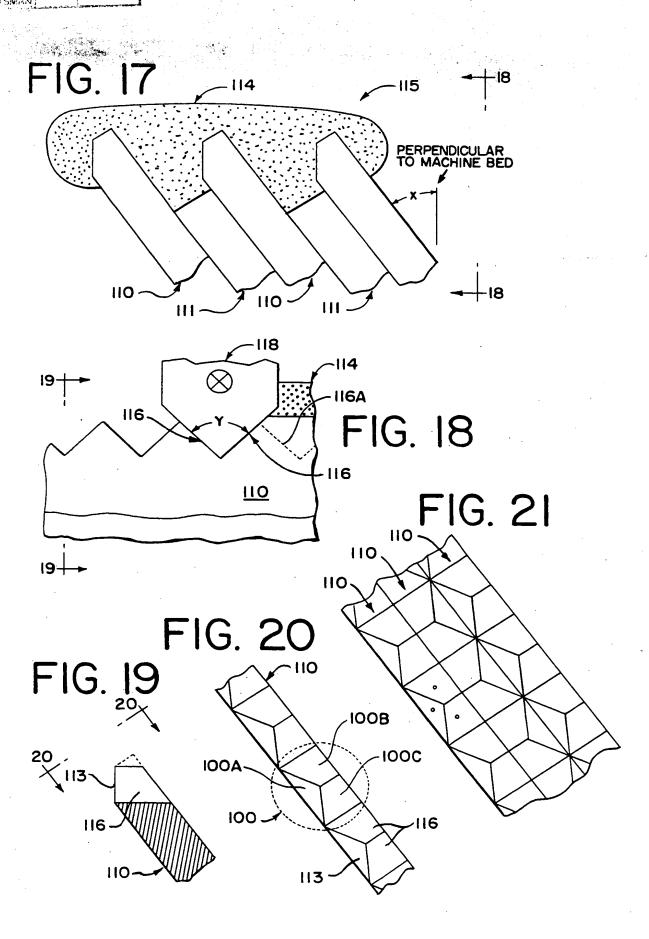
INTERRELATIONSHIP OF d, s, t, I AND I'
FOR POSITIVE VALUES OF I

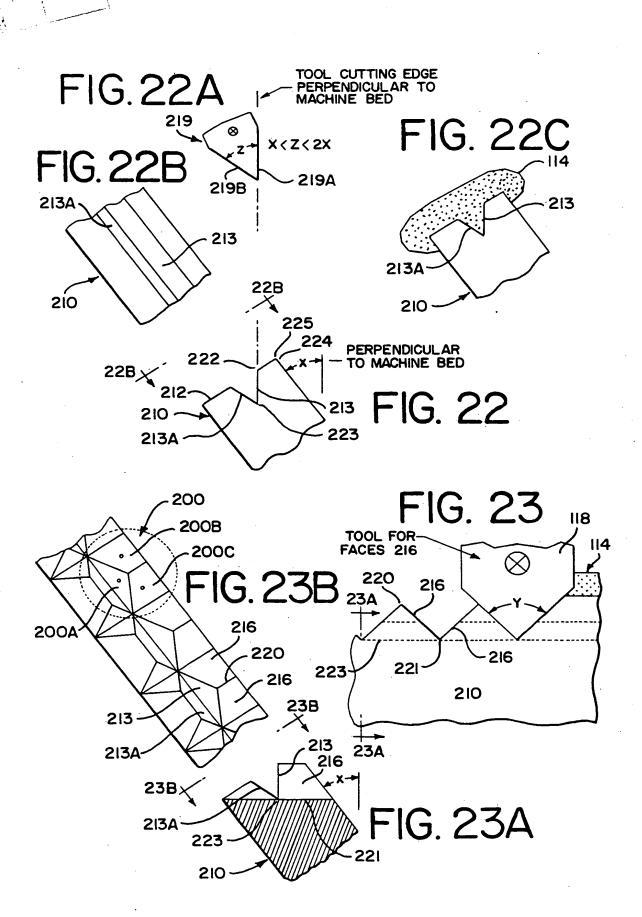


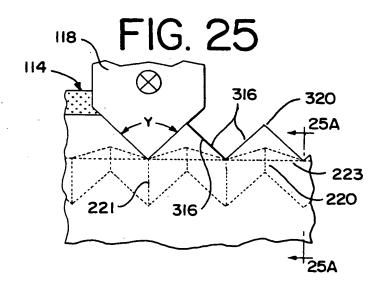


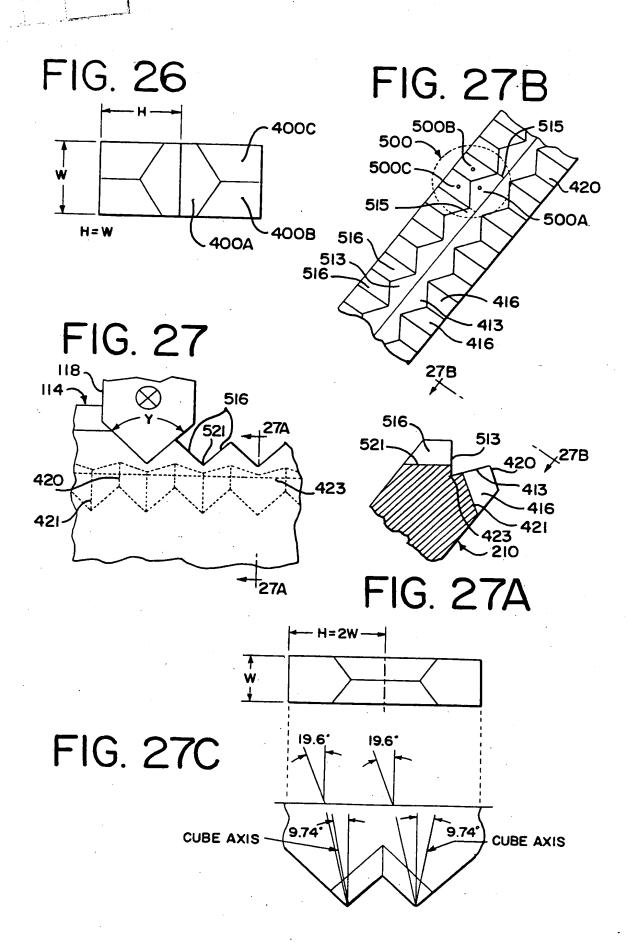


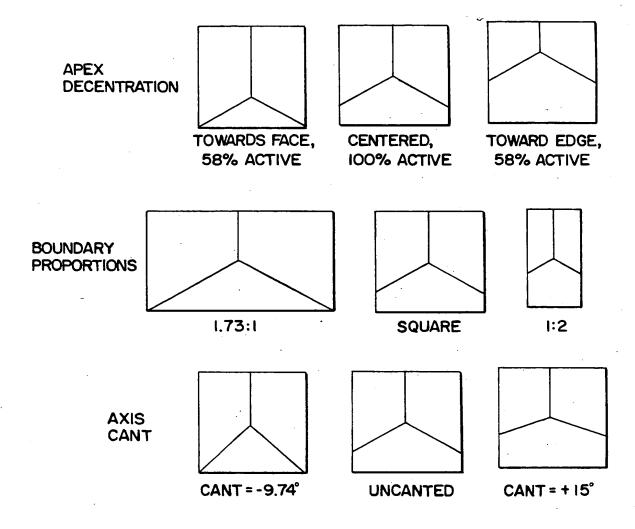


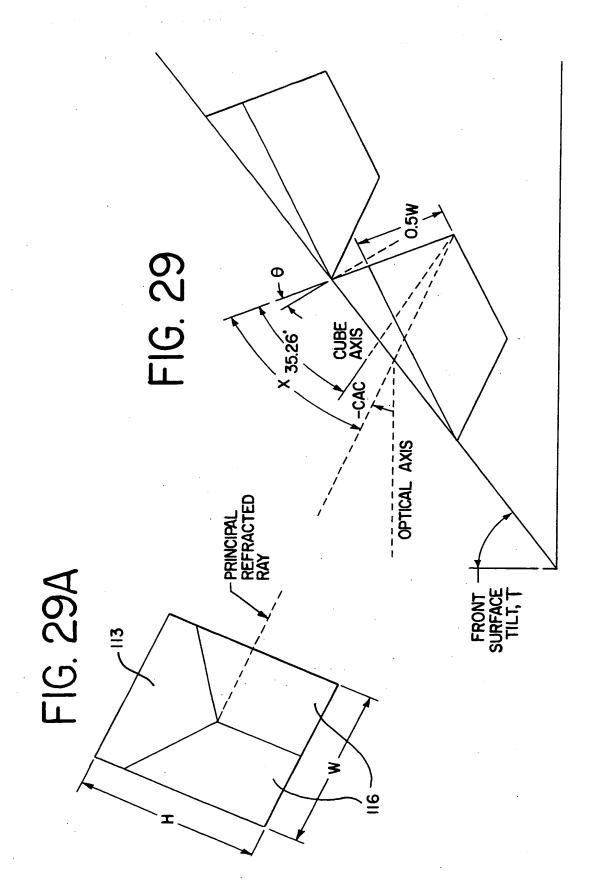












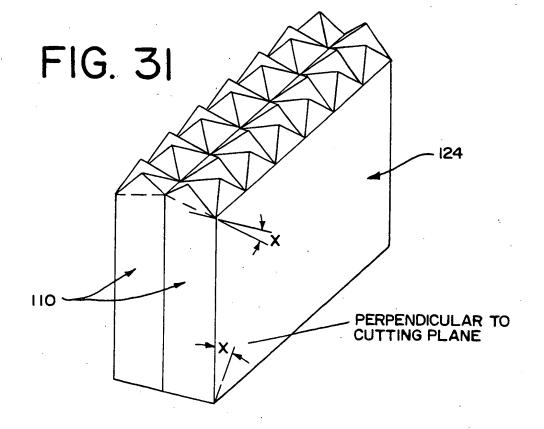


FIG. 32

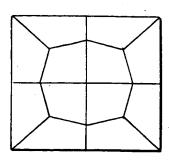


FIG. 33

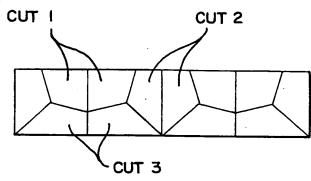


FIG. 34A

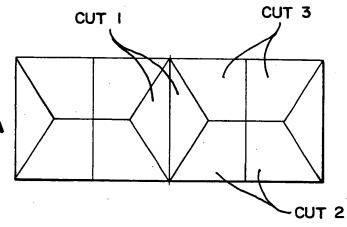


FIG. 34B

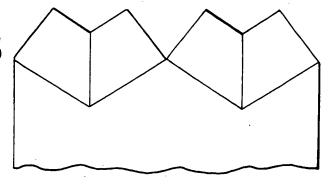


FIG. 35 ARRAY OF PENTA-FACE HEXAGONAL CUBES SHOWING A PLATE HIGHLIGHTED

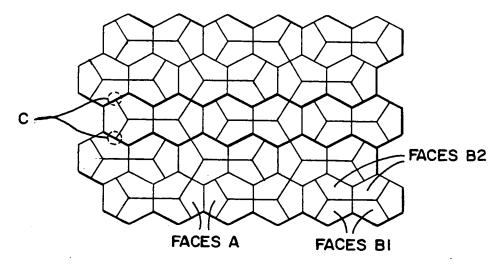


FIG. 36

ARRAY OF PENTAGONAL CUBES WITH +8.7 AXIS TILT AND 89.8 AREA EFFICIENCY

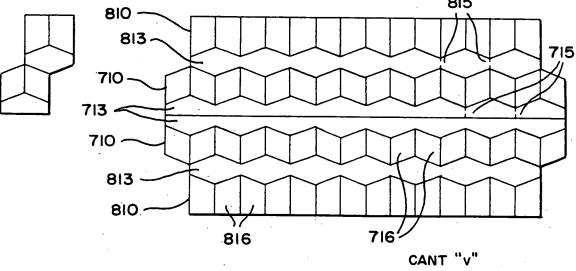


FIG. 36A

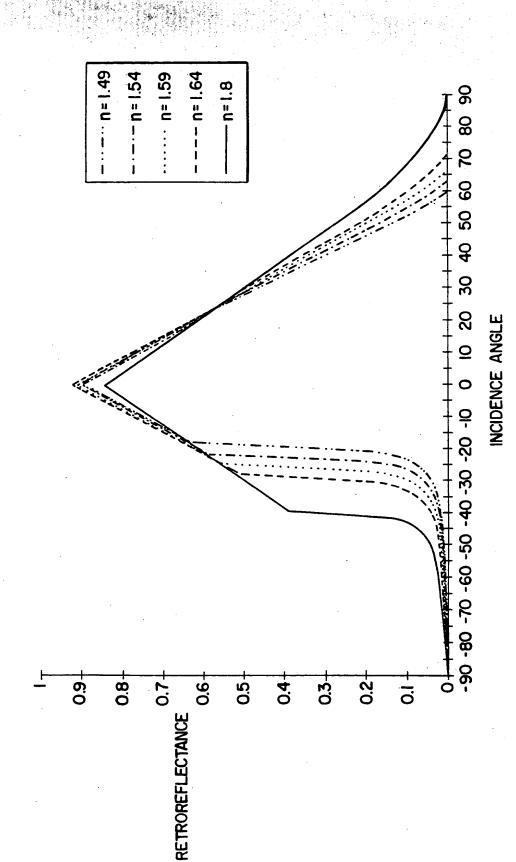
CANT "u"

g = 2arctan $\frac{\sqrt{3}\cos(v-u)}{\cos(v)-\sqrt{2}\sin(v)}$

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FIG. 37

PERFORMANCE OF SIMPLEST HEXBLADE ARRAY (d/1=.7071, s/1=0, NOT PAIRED) FORMED IN MATERIALS OF DIFFERENT REFRACTIVE INDICES



NOLAS:

FIG. 38

PERFORMANCE OF HEXBLADE ARRAYS (n=1.49, s/t=0, NOT PAIRED)
OPTIMIZED FOR DIFFERENT INCIDENCE ANGLES

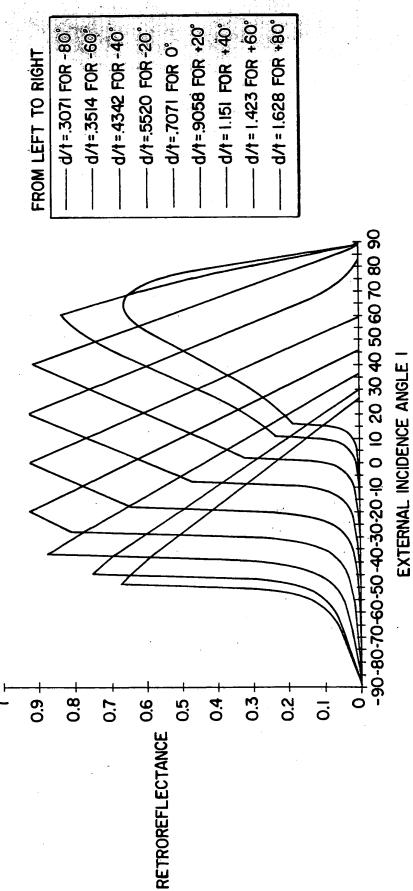
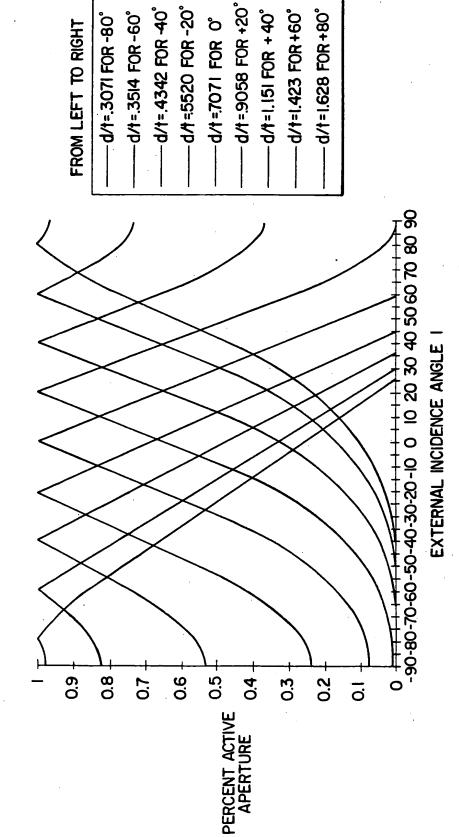
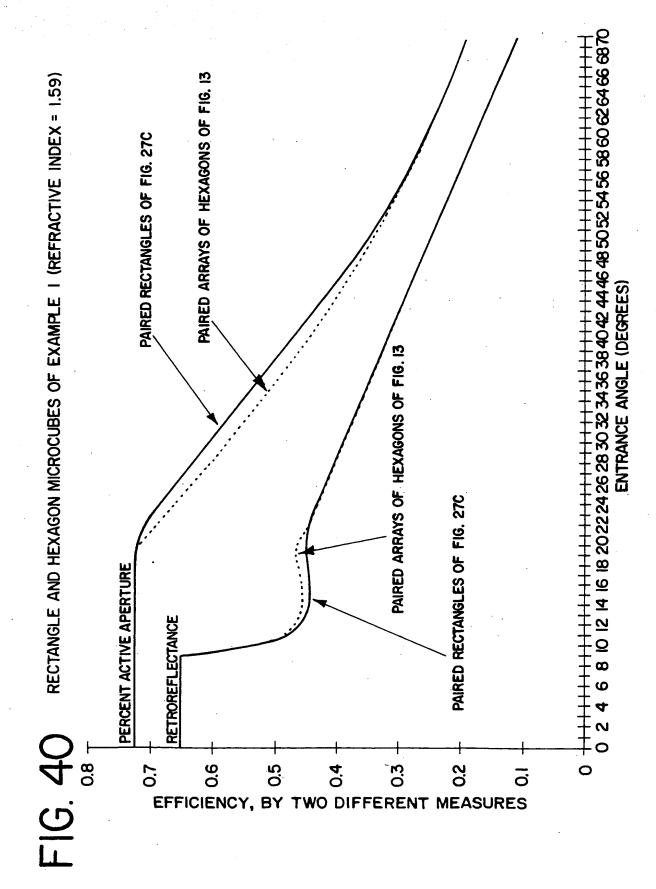


FIG. 39

PERFORMANCE OF HEXBLADE ARRAYS (n=1.49, s/t=0, NOT PAIRED)
OPTIMIZED FOR DIFFERENT INCIDENCE ANGLES





F .

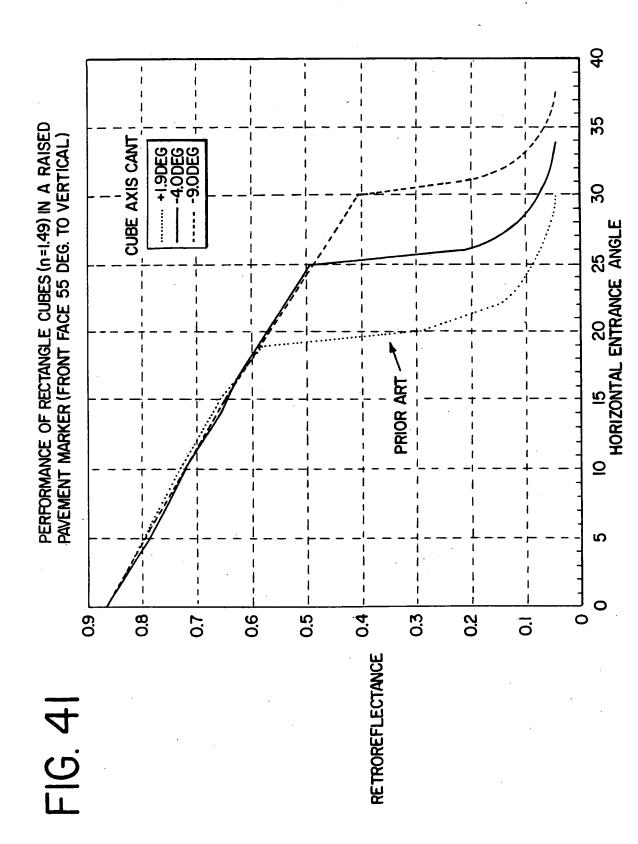
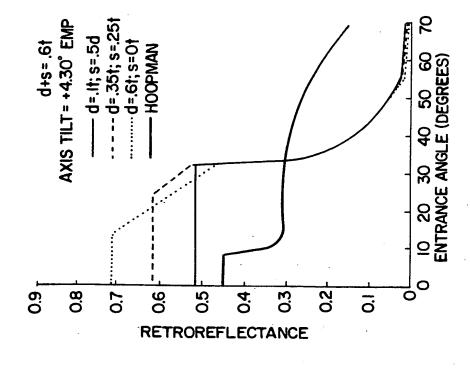


FIG. 42A

FIG. 42B

RETROREFLECTANCE VERSUS ENTRANCE ANGLE FOR PAIRED ARRAYS 0



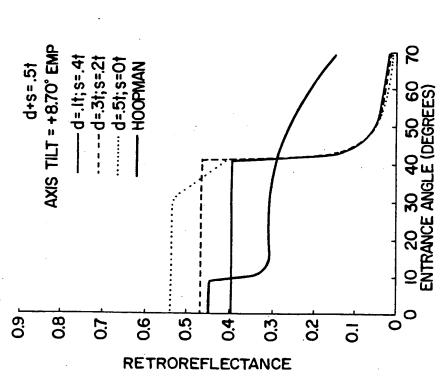
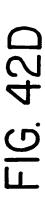
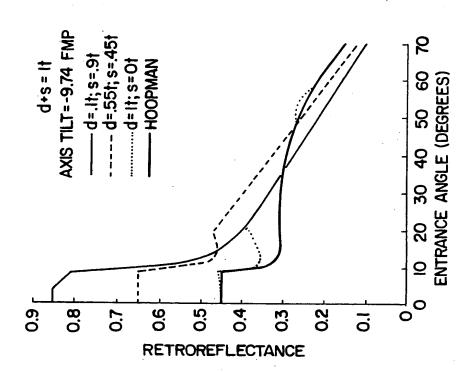
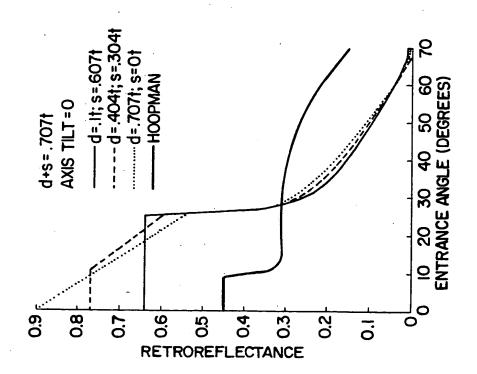
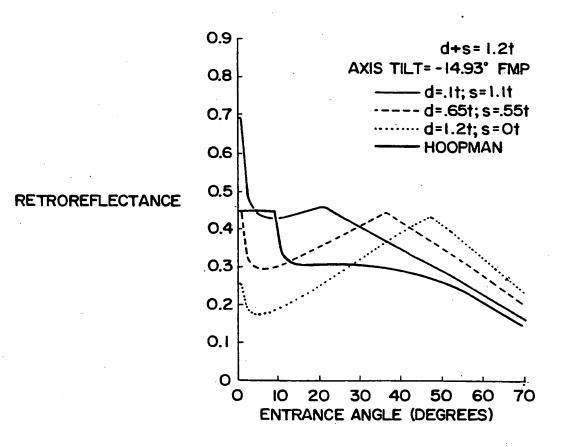


FIG. 42C



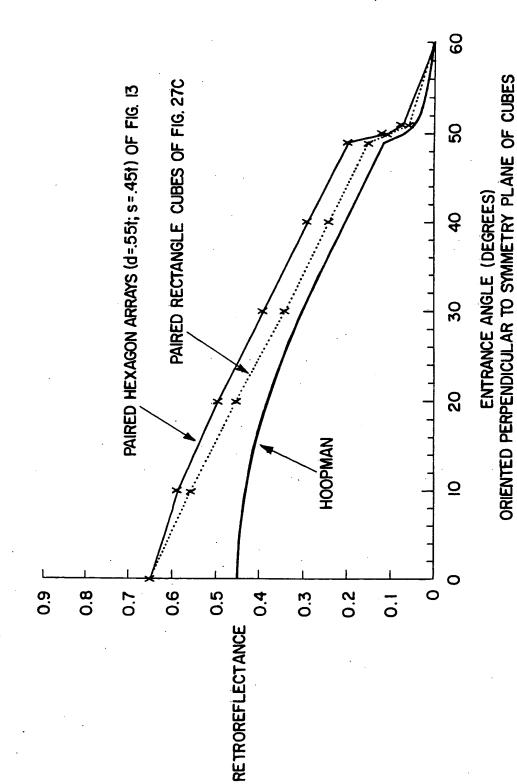


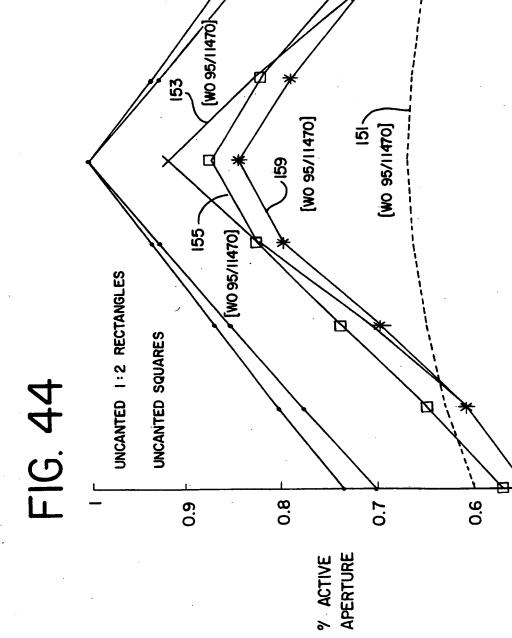




CALL DE LA CONTRACT

FIG. 43





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9

ENTRANCE ANGLE

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0.5 -20

